

FEB 14 2002  
PATENT & TRADEMARK OFFICE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT APPLICATION of  
Inventor(s): Mills

Group Art Unit: 2881

Appln. No.: 09/513,768

Examiner: Wells

Filing Date: 2/25/2000

Title: ION CYCLOTRON POWER CONVERTER AND RADIO MICROWAVE  
GENERATOR

\* \* \* \* \*

February 8, 2002

SUPPLEMENTAL AMENDMENT TO OFFICE ACTION

Hon. Asst. Commissioner  
of Patents and Trademarks  
Washington, D.C. 20231

Sir:

Please amend the present application as follows:

IN THE CLAIMS:

Please add new claims 11-209 as follows:

11. A cyclotron comprising:  
a cell for containing ions formed by catalysis of hydrogen during operation of the cyclotron, wherein the hydrogen catalysis comprises a reaction between hydrogen atoms and a catalyst having a net enthalpy of reaction of about  $m/2 \times 27.2$  eV, where  $m$  is an integer greater than 1, that releases energy from the hydrogen atoms and forms hydrogen atoms having lower energy states;  
a source of the hydrogen in communication with the cell;  
a source of the catalyst in communication with the cell;  
a source of a magnetic field constructed and arranged for producing a magnetic field during operation of the cell for causing the ions formed by the reaction of the hydrogen and the catalyst to orbit in the cell; and  
at least one antenna constructed and arranged for receiving power from the ions during operation of the cell.

12. A cyclotron according to claim 11, further comprising a resistive load connected to the at least one antenna.

13. A cyclotron according to claim 11, wherein the source of magnetic field produces a

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